

From boatanchors@theporch.com Mon Jan 9 11:45:27 1995  
Date: Mon, 9 Jan 1995 10:14:01 -0600  
Message-Id: <n1422483472.79574@cpqm.saic.com>  
From: "Bob Scott" <Bob\_Scott@cpqm.saic.com>  
Subject: Re: Anyone going to FrostFes

I hope to be there. It would be great to meet some of you guys and shake some hands, especially since it is unlikely that I will make it to Dayton this year. Maybe we can stake out a corner or have lunch or something.

73, Bob AC4Q0 Bob\_Scott@cpqm.saic.com

From boatanchors@theporch.com Mon Jan 9 11:11:16 1995  
Date: Mon, 9 Jan 1995 09:39:31 -0600  
Message-Id: <9501091605.AA102576@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Anyone going to FrostFest next weekend?

I am curious..... How many o' de ol' Boatanchorites aboard are a'goin' to to the Richmond FrostFest this coming weekend? Of course we are a'chasin' those glow-in-the-darkers and all those wonderful bits an' pieces for which thar ain't no suitable replacement about 'cept fer reel boatanchor parts!

73  
Bob  
NA4G

From boatanchors@theporch.com Mon Jan 9 12:38:36 1995  
Date: Mon, 9 Jan 1995 10:55:04 -0600  
Message-Id: <Pine.SUN.3.91.950109112606.10416B-100000@access4.digex.net>  
From: Tony Stalls <rstalls@access.digex.net>  
Subject: Re: Anyone going to FrostFest next weekend?

On Mon, 9 Jan 1995 rdkeys@csemail.cropsci.ncsu.edu wrote:

> I am curious..... How many o' de ol' Boatanchorites aboard are a'goin'  
> to to the Richmond FrostFest this coming weekend?

If I can drag my carcass out of bed early enough to get me down there at a reasonable time, I hope to make it.

73,

Tony  
K4KY0

From boatanchors@theporch.com Mon Jan 9 15:00:47 1995  
Date: Mon, 9 Jan 1995 13:26:20 -0600  
Message-Id: <9501091914.AA100440@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: BA folks at Frost Fest

OK I have had several folks say they would be at frostfest.

All the BA folks, who will be there, make up a card about the size of an IBM punchcard (remember those boatanchor thingies..... (:+{})). Put the letters BA as big as you can on it at the top so that when the card is put in your pocket, the BA will show above the ticket stub for the hamfest.

That way, all Boatanchorites present will be able see that they are talking to other Boatanchorites, in passing along the aisles.

Also, maybe me should meet at the microphone (ticket stub basket?), podium, place at High Noon, as Gary Cooper used to be prone to doing.

If anyone straps on a straight shooting sending leg iron, and waltzes around with it on, that is worth an extra 100 boatanchorpoints!

73/Bob/NA4G

From boatanchors@theporch.com Mon Jan 9 17:48:38 1995  
Date: Mon, 9 Jan 1995 13:26:20 -0600  
Message-Id: <9501091914.AA100440@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: BA folks at Frost Fest

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If anyone straps on a straight shooting sending leg iron, and waltzes around with it on, that is worth an extra 100 boatanchorpoints!

73/Bob/NA4G

From boatanchors@theporch.com Mon Jan 9 23:59:37 1995  
Date: Mon, 9 Jan 1995 22:26:12 -0600  
Message-Id: <Pine.AUX.3.91.950109222016.6810A-1000000@theporch.theporch.com>  
From: Phillip Porch <pporch@theporch.com>  
Subject: check after system change

Sorry to post to the list but I need to make sure it is running OK. I have had a hard disk crash and the rebuild may have left some things not operational. Keep your fingers crossed.

73

--  
Phillip P. Porch <pporch@theporch.com>

From boatanchors@theporch.com Mon Jan 9 10:40:47 1995  
Date: Mon, 9 Jan 1995 09:10:00 -0600  
Message-Id: <Pine.3.89.9501091604.A29526-0100000@inet.uni-c.dk>  
From: MEC <danmec@inet.uni-c.dk>  
Subject: Cold War -Warsaw-pact radios

For sale: Military radiosets from the previous Sovjet-black armies.

If you have an interest, drop me a line and indicate what your are looking for, i.e. portable/mobile/stationary/transceivers/receivers etc  
.

73 Rag OZ8R0

From boatanchors@theporch.com Mon Jan 9 12:08:28 1995  
Date: Mon, 9 Jan 1995 10:29:17 -0600  
Message-Id: <199501091628.KAA17384@motcig.cig.mot.com>  
From: PEKer <knight@cae.cig.mot.com>  
Subject: Collins S-Line FOR SALE!

I still have the following equipment for sale:

Collins 75S1 Receiver w/manual	\$325
Collins 32S1 Transmitter/516F2 power supply/manual	\$325
Hand mic (wired for 32S1)	free w/ 32S1

All prices do NOT include shipping.

If you're interested, please drop me a note at: [knight@cae.cig.mot.com](mailto:knight@cae.cig.mot.com)

Thanks!

Paul WD8DKY

From [boatanchors@theporch.com](mailto:boatanchors@theporch.com) Mon Jan 9 10:16:33 1995  
Date: Mon, 9 Jan 1995 08:44:56 -0600  
Message-Id: <9501091511.AA102319@csemail.cropsci.ncsu.edu>  
From: [rdkeys@csemail](mailto:rdkeys@csemail)  
Subject: Re: CWIST Friday Night Fist Function

> On Fri, 6 Jan 1995 [rdkeys@csemail.cropsci.ncsu.edu](mailto:rdkeys@csemail.cropsci.ncsu.edu) wrote:  
> >  
> > I will be on again at the appointed midnight hour for the continuing  
> > saga of the Sacred and Most Honorable Friendly Society of Brass  
> > Pounding Fist-Functioning CWISTS.  
> >  
> Great idea, Bob. I got the Ranger and McElroy teardrop fired up on 3702  
> at 0500Z but my local line noise pretty much covered the signals I might  
> have heard. With some difficulty I have the Zepp now tuned to 1802 and  
> will be QRV at 0600Z. Unfortunately, the line noise seems persistant  
> tonight. This would be a great weekly event, assuming I can eventually  
> hear somebody!!  
>  
> 73! Mark, NE9G  
>

It was a blowout, because of very bad storms, lightning, high winds, and tornadoes that blew through eastern NC, from Raleigh all the way to the Outer Banks. The static was 20-40 over 9, and I was wondering what all the commotion was. I looked up on the TV a few minutes after the watch, and like to dropped my jaw..... Had not seen that much storm activity come through here since the tornado of Nov. 88 blew Raleigh away. Maybe next week will be better.

The teardrop stream key is a nice little key. I had one long ago, in the grey paint base. The chrome one is quite nice.

Bob/NA4G

From boatanchors@theporch.com Mon Jan 9 17:58:07 1995  
Date: Mon, 9 Jan 1995 13:29:34 -0600  
Message-Id: <mshaum.4.000BC536@xnet.com>  
From: mshaum@xnet.com (Mark Shaum)  
Subject: Re: CWIST Friday Night Fist Function

Re: CWIST

>> Great idea, Bob. I got the Ranger and McElroy teardrop fired up on 3702  
>> at 0500Z but my local line noise pretty much covered the signals I might  
>> have heard. With some difficulty I have the Zepp now tuned to 1802 and  
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>what all the commotion was. I looked up on the TV a few minutes after  
>the watch, and like to dropped my jaw..... Had not seen that much  
>storm activity come through here since the tornado of Nov. 88 blew  
>Raleigh away. Maybe next week will be better.

At least your type of QRN will eventually go away.. here, my line noise seems  
persistant enough to pop in nearly every opportunity I have to get on the air  
lately, although I did manage two qso's last night on 80 with the little Ameco  
AC-1 6V6 rig..

>The teardrop stream key is a nice little key. I had one long ago, in  
>the grey paint base. The chrome one is quite nice.

I love mine.. has a better 'feel' than the J-38 or Johnson Navy model I've  
used. Mine is the chrome based model, although I can't figger out why they  
used non-plated nuts to assemble the thing. I'm told this is typical of the  
chrome teardrops, with everything chrome plated except the adjusting nuts and  
spring. The 'Platinoid Contacts' (re: my 1943 handbook) work just fine,  
though <grin>.

73! And hopefully I'll be hearing you on the 14th (UTC). - Mark, NE9G

From boatanchors@theporch.com Mon Jan 9 10:09:09 1995  
Date: Mon, 9 Jan 1995 08:35:53 -0600

Message-Id: <9501091502.AA102266@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Re: CWIST SPEED QUESTION ?

>  
> >Don't worry about QRP/QRMUDD antennas, I usually can hear everyone except  
> >for the far West Coast pretty well.  
>  
> Well, how did the Friday session go? Our local line noise pretty much wiped  
> out my receiving between .5 and 30 Mhz over that time slot.. but I'll be in  
> there again this coming Friday. The 13th. Hmm. Maybe I shouldn't even plug  
> the anchors in on that day.. <grin>  
>  
> 73! - Mark, NE9G  
>

This week was most interesting. I was able to gather two stations, but a couple of others were there in the mud. The QRN was 20-40 over 9 on my gut estimated S-meter. We had BAD lightning storms, tornadoes, high winds, etc., from my QTH in Raleigh, all the way to the Outer Banks. It really put a damper on things that I could hear. But, there were a few fellas on. Maybe again, this friday, the static will be nil, and things can get back to normal. Saturday and Sunday nights were very good on 160/80/40, so this past friday night was just a freak storm.

Friday that 13th..... nah, it will actually be Saturday Radio Day, at 0500/0600 UTC, and past the midnight bewitching hour. So, there should be no bad luck about..... (:+{}.....

73  
Bob  
NA4G

From boatanchors@theporch.com Mon Jan 9 10:05:51 1995  
Date: Mon, 9 Jan 1995 08:34:27 -0600  
Message-Id: <9501091422.AA28676@ausable.crd.Ge.Com>  
From: mallick@ausable.crd.ge.com (John Mallick)  
Subject: CWISTs 1/6/94

Well, I managed to work Brian VE3VAW in Toronto during the Friday Night Fist Function on 80 meters. No one else heard. Where were you, Bob? Did the coffee run out before midnight? Anyhow, my Ranger behaved well, but the R4 started getting a bit flakey. Time to clean out the controls. Hope I can get on next week and see who's around.

73, John WA1HNL

From boatanchors@theporch.com Mon Jan 9 10:26:47 1995  
Date: Mon, 9 Jan 1995 08:54:55 -0600  
Message-Id: <9501091521.AA102383@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Re: CWISTs 1/6/94

>  
> Well, I managed to work Brian VE3VAW in Toronto during the Friday  
> Night Fist Function on 80 meters. No one else heard. Where were you,  
> Bob? Did the coffee run out before midnight? Anyhow, my Ranger  
> behaved well, but the R4 started getting a bit flakey. Time to clean  
> out the controls. Hope I can get on next week and see who's around.  
>  
> 73, John WA1HNL  
>

Hey, John.....

I was there at 0500 on 3702R5 and 0600 on 1802R5. Only hooked up  
with two stns on 80, but heard a couple of others too weak to copy.  
I was around on the band until about 0700, at which time I had to  
call it quits because that static was so bad I could hardly even hear  
the commercial CW stations. Geesh, what a poor night, locally.

Bob

From boatanchors@theporch.com Mon Jan 9 11:03:35 1995  
Date: Mon, 9 Jan 1995 09:31:12 -0600  
Message-Id: <1233@sat.ampr.org>  
From: ki5sl@sat.n5lyt.ampr.org (Rick\_Blank)  
Subject: Re: Drake R4C tuning knob - vertical play

In message <199501080149.RAA28234@netcom15.netcom.com> dgf@netcom.com writes:

> My Drake R4C has a bit of vertical play in the main tuning knob. You can  
> push upwards on the knob; it will move maybe 1/16", and the frequency will  
> change a couple of kHz. I fully removed the front panel and couldn't find  
> anything to tighten or adjust. Is there anything else I should look at,  
> or is the bearing race just shot?

>  
> The receiver has always been in this condition since I got it from the  
> previous owner, so the problem did not develop suddenly. It also isn't  
> getting any worse, but the difficulty in tuning makes sharp CW work  
> a bit difficult.

>  
> Advice by e-mail gratefully appreciated!

>  
> 73 Dave WB0GAZ dgf@netcom.com

>  
>

I just checked my 2 R4-C's and 2 T4X-c's and an old TR-4 that needs a PTO overhaul and did not find this play....I just pulled the case of an R-4C and it looks like the only place for play would be either in the main bearing or in the 2 gears that are on the spring loaded arms that ride against the gearset....maybe if any of these old rigs had some play then I could tell, sorry about that! Just make sure all gears are riding where they should be...I have had to ream the center out of one of the gears on one of the R4-C's because it had tightened up but never had one loosen up....

Rick Blank, KI5SL  
ki5sl@sat.ampr.org  
2223 Blanco Road  
San Antonio, Texas 78212  
end

From boatanchors@theporch.com Mon Jan 9 17:30:08 1995  
Date: Mon, 9 Jan 1995 15:52:14 -0600  
Message-Id: <9501091351.AA27948@ausable.crd.Ge.Com>  
From: mallick@ausable.crd.ge.com (John Mallick)  
Subject: Re: Drake R4C tuning knob - vertical play

Dave:

Give Drake a call. I believe they have a fix for this, consisting of an Allen wrench and a set of instructions for tightening up the knob. There is a little Allen screw in the PTO which needs to be tightened just the right amount to eliminate the play. I did it on mine many years ago. You can't tighten it too much or else something bad happens according to memory.

73, John WA1HNL

From boatanchors@theporch.com Mon Jan 9 02:36:06 1995  
Date: Mon, 9 Jan 1995 01:04:29 -0600  
Message-Id: <9501091001.22614.AC@smrouter.AAC.COM>  
From: Johnson\_Dan@AAC.COM  
Subject: Re: Help with ART-13 power supply parts sources?

Yes, I'm answering my own post. Sorry... :-S

The 1970 ARRL Handbook (forgot had) has an entire chapter on high voltage



power supplies for everyday life, and I am hungrily ingesting it. That should answer most of my questions, including (a) how to combine lower-rated components to push more volts and amps through them while avoiding annoying smoke and light and (b) how to tame power-up surges.

Still interested, however, in learning about sources of components rated over 15V, 2A, and 100uH. ;)

Gee, this is pretty fun.

- KC4EWT  
Johnson\_Dan@aac.com

From boatanchors@theporch.com Mon Jan 9 11:00:42 1995  
Date: Mon, 9 Jan 1995 09:19:54 -0600  
Message-Id: <9501091519.AA04122@cen.com>  
From: gc@fox.gsfc.nasa.gov (Gary Chatters)  
Subject: Re: Help with ART-13 power supply parts sources?

Hi Dan,

I have a few partial answers for you. I'll post it to the list to encourage others to correct me or add something useful.

>

>Having recently acquired an ART-13 transmitter, I am assembling parts

Could that have been the one advertized in Auto-Call for \$50?  
I called the guy and found out that someone had picked it up three days before I got my copy. I wondered if someone on this list got it.

>with novice BA enthusiasm to bring it back to life with the power  
>supply described in ER #62 (June '94) by Bill Kleronomos/KD0HG. This  
>is my first experience homebrewing old technology in a world far too  
>new (and too low-voltage, I might add), so I could use some help

Be careful!

>Can anyone suggest sources for things like:

>

> Chokes: 100mH @ 10A, 8hy @ 200ma and 250ma  
> Caps: 5000 mF @ 50V, 80uF @ 450V, 10uF @ 2kV, .1 uF @ 1kV  
> Power resistor: 50k Ohm @ 50W  
> Diode: 10-50W stud mount 150V zener  
> Power transformer: 115V to 28V 10A

Some of those things can be gotten from Allied or Newark but

high voltage or high current can be difficult to find. You may have to spend a lot of time at hamfests (only 6 days till Frostfest).

You might want to give Electronics Plus in Beltsville, MD a call, or just go over there and visit the place. He tends to concentrate on solid-state and computer stuff but seems to have a lot of things from when it was Surplus Electronics. Last time I was there they still had their corner drug-store style tube tester. I have picked up a couple of little items like octal plugs. His prices are high, though.

Has anyone tried Suplus Sales of Nebraska?

>The supply is supposed to run 27V @ 10A (ack! mostly for the autotune

As a possible source for the 27V, consider picking up one of the Lambda regulated power supplies that there are always a few of at hamfests. I have avoided the 28v ones except for a low current one that I bought last year. I am going to start watching for the higher current ones now.

[...]

>

>Related question: what can one use to load a power supply which is  
>under construction to test it without destroying it? I have a  
>homebrewed 1000V supply picked up at a hamfest which has the ominous  
>Dymo warning, "DO NOT OPERATE UNLOADED", and I don't feel particularly  
>comfortable using the ART-13 as the test load. (Is it necessary to  
>load a high voltage transformer out of circuit to determine its  
>step-up ratio?)

This is strange. I don't off hand know why a simple high-voltage power supply could not be operated unloaded unless there was something wrong with it. Does it have a bleeder resistor in it? If it does not, install one NOW before you ever plug it in!!!!!! This is a safety issue to prevent the power supply from destroying you, not itself.

One of the more useful things I have picked up at hamfests are boxes of high power resistors. I have some 1K and 5K at 100 or 200 watts. Hook up a few in series or parallel and you have a good dummy load for a power supply.

Hope this helps a little.

73,

Gary

From boatanchors@theporch.com Mon Jan 9 17:37:29 1995  
Date: Mon, 9 Jan 1995 15:59:21 -0600  
Message-Id: <Pine.3.89.9501091624.A22851-0100000@IndyNet>  
From: "Roberta J. Barmore" <rbarmore@IndyNet.indy.net>  
Subject: Re: Help with ART-13 power supply parts sources?

Hi!

In re the topic above, Gary Chatters asked if the original writer had tried Surplus Sales of Nebraska. As it happens, I just received a catalog from them; while they have quite a few nice things, their prices on some things--variable capacitors and inductors in particular, and Collins mic plugs--struck me as *\*amazingly\** high. Maybe it's just me--it's been awhile since I saw *\*any\** surplus catalog. Still, I don't remember being shocked by prices in Far Radio's cat. But I'm sticking with our local industrial/whatever surplus place, MAI, as much as possible; what they have in stock is dirt-cheap by the SSoN yardstick...now, if only they had more RF componentry!

Anyone who's not got the catalogs from the various places catering to the antique-radio set is missing an excellent set of sources, btw--while AES, Play Things Of Past, Don Diers et al don't have some of the high-power transmitting parts BAs can require, they've got quite a few of the (once) common components, at excellent prices. And most of them are run by first-rate scroungers who can often dig up things not listed in their catalogs!

73,  
--Bobbi

From boatanchors@theporch.com Mon Jan 9 18:51:36 1995  
Date: Mon, 9 Jan 1995 17:19:20 -0600  
Message-Id: <Pine.SUN.3.91.950109170752.14034B-100000@access3.digex.net>  
From: Tony Stalls <rstalls@access.digex.net>  
Subject: Help with Viking II Electrolytics

This is one of those things that should be simple, but for some reason isn't working out that way. My frustration has exceeded my having been too embarrassed to ask for help.

I'm replacing the filter capacitors in my Viking II (C10,11 and C12,13). The values of all four were 15 MFD. Well, unfortunately, it seems there is no longer such a thing as a 15 MFD, so the choice is either a 10 MFD or a 22 MFD. I got four 22 MFD's at 450 volts. I replaced C10 and C11 and the hum on my audio went, so I left C12 and C13 (-75 volt bias supply filters) alone until I noticed a little bit of a rough CW note. I then put in the second pair of 22 MFD's, replacing a Sprague part #22-765, but the new ones got extremely hot and started to smoke. Thinking they

were just bad out of the box, I put in two more and got the same result.

How complicated can soldering a couple of electrolytic capacitors in be?  
What in heaven's name can be happening here? What (probably) very obvious  
thing am I missing?

HELP!!!

Thanks in advance,

Tony  
K4KY0

From boatanchors@theporch.com Mon Jan 9 16:43:33 1995  
Date: Mon, 9 Jan 1995 15:08:02 -0600  
Message-Id: <199501092104.NAA22182@mozart.bcit.bc.ca>  
From: "Colin Schmutter" <cschmutter@bcit.bc.ca>  
Subject: Hollow State News

I have heard of a publication called Hollow State News.

Does anyone have subscription details?

Thanks

Colin

VE7CQH  
Colin Schmutter  
Networks and Communications  
British Columbia Institute Technology  
CSCHMUTTER@BCIT.BC.CA

(604) 432-8858

From boatanchors@theporch.com Mon Jan 9 17:31:42 1995  
Date: Mon, 9 Jan 1995 14:50:55 -0600  
Message-Id: <d09En3300000000000@MHS>  
From: RICHARD\_HUMPHREY@hp5200.desk.hp.com  
Subject: HRO-50 hum?

My HRO-50T1 power transformer hums rather loudly. Has anybody else  
got this 'feature'? I haven't had the time to dig in there and see  
if the bolts are tight. No hum in the audio, just in the cabinet.  
Richard  
N6NAE

From boatanchors@theporch.com Mon Jan 9 19:40:17 1995  
Date: Mon, 9 Jan 1995 18:08:44 -0600  
Message-Id: <950109181921\_3737246@aol.com>  
From: WaltN@aol.com  
Subject: KIWA MAP (was: R390A help sought)

Chris:

The MAP, from Kiwa Electronics (Yakima, WA) is a device that accepts a 455 kHz IF input and which contains a sophisticated detector, variable audio filter, tone tilt control, and two bandwidths. It also contains a *\*very\** good audio amp 5" (or so) acoustic suspension speaker. They were originally made (as were the Sherwood units) to make up for the deficiencies in the JRC NRD-525's audio circuitry; I got mine originally to use with my NRD-535D, which also has pretty lousy audio.

In addition to the aforementioned electronics, the MAP also has a speaker input and a switch to allow A-B comparisons between the receiver's built-in audio and the MAP-enhanced audio. There are some times when the MAP's processed audio is *\*too\** good, as when you're trying to dig DX out of the mud...then, the receiver's voice-peaked audio may be the better choice. The nice thing is that this is only a button push away.

The MAP comes with a 12VDC wall wart, but can be powered from batteries for DXpeditions and the like (though it draws a hefty amount of power.

I'm at work now, and don't have the full spec's available. I'll be happy to supply them from the doc's if anyone is interested. The units aren't made anymore (Craig Siegenthaller, Pres of Kiwa, is rumored to have said he could never make a penny on them because he's too much of a perfectionist<g>), but do turn up occasionally in magazine ads (e.g., Pop Comm or Monitoring Times) and at swap meets. I bought one of mine off the 40M swap service that runs Sat/Sun here on the Left Coast.

73 de Walt

From boatanchors@theporch.com Mon Jan 9 17:41:46 1995  
Date: Mon, 9 Jan 1995 14:52:26 -0600  
Message-Id: <"d09E1,D000000000\*"@MHS>  
From: RICHARD\_HUMPHREY@hp5200.desk.hp.com  
Subject: LAJ-1 manual???

Another real long-shot, but I'll ask anyway. Does anybody have a manual for an LAJ-1 audio oscillator? It's an HP instrument, circa 1947, that was built for the Navy. It's the oldest HP audio oscillator I've yet laid hands on. There's a little paper tag hung on an allen wrench inside the unit that says "Tropicalized, 4-47".

Richard  
N6NAE

From boatanchors@theporch.com Mon Jan 9 18:43:31 1995  
Date: Mon, 9 Jan 1995 17:10:56 -0600  
Message-Id: <9501092309.AA12009@red-eft.la.ca.us>  
From: "Hugh D. Stegman" <driver8@red-eft.la.ca.us>  
Subject: Re: Musical boatanchors!

Bob writes:

>[...] tall Leslie cabinets...

Ever go inside one of those things? The woofer points down, and has a belt-driven reflecting baffle rotating beneath it. The same motor and belt system drives an array of horn tweeters, which rotates like a propeller, or some type of paranoid grenade launcher. This assemblage turns at variable speed, and it's fed by a hollow-state amp chassis that is a monster. It holds its own on a stage full of Marshalls.

Shows that where there's a will, there's a way. Also, these were still being built by people who wanted to make a real musical instrument that could go into a church and last until the next millennium. They weren't consumer electronics.

IMHO synthesizers come and go, and they're getting incredibly good, but for the real nasty jazz/rock sound it's still hard to beat the B3/Leslie setup. Better buy a large truck.

Hugh NV6H

From boatanchors@theporch.com Mon Jan 9 18:52:41 1995  
Date: Mon, 9 Jan 1995 17:20:54 -0600  
Message-Id: <9501092316.AA12028@red-eft.la.ca.us>  
From: "Hugh D. Stegman" <driver8@red-eft.la.ca.us>  
Subject: Re: Musical boatanchors!

Bob writes:

>used to make an electromechanical organ thing [...] with 100 endless loops of  
>tape [...]

The Mellotron of Moody Blues fame worked this way as well. The tapes could be any weird noise one could dream up. It was the original sampler, sort of. I think the Mellotron was made in England, and producers hated them because (at least in the U.S.) the musician's union wanted them to hire live players

to sit and listen to whatever parts the dandy machine was making instead of them.

Those were the days. Now the non-keyboard or guitar session player is an endangered species.

Hugh NV6H

From boatanchors@theporch.com Mon Jan 9 09:49:25 1995  
Date: Mon, 9 Jan 1995 08:18:51 -0600  
Message-Id: <9501091445.AA102216@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Re: Need Breting 40 Schematic

>  
> I am in desperate need of a Breting Model 40 schematic. This is an ancient  
> SW receiver (1930's) which is a bit rare. I have checked all usual channels.  
> Someone out there has one.  
>  
> Thanks.  
>  
> Joe  
>  
> wjoew@aol.com  
>

Check with N4IQA, good in the book, Robert P. ``Tim'' Buehlmann.

Tell him I sent you.

73 de NA4G/Bob

```
*****
* 73 TU SU VA DE NA4G          ``Boat Anchor Bob'', an ol' CW fart. *
*****
* Morse has been in the family for over 100 years. *
* Morse radiotelegraphy (Spark/CW) has been in the family since 1914. *
*****
* May you have fair winds and following seas on your watch at the key. *
*****
```

From boatanchors@theporch.com Mon Jan 9 09:08:07 1995  
Date: Mon, 9 Jan 1995 07:35:25 -0600  
Message-Id: <199501081814.NAA25910@bunny.gte.com>  
From: okas\_rp%ncsd.dnet@gte.com  
Subject: Need R-100/URR info

Hello All,

I came across an R-100/URR receiver in an antique store I was browsing through the other day. Basically, it's a three-band unit that will operate either on batteries or AC line. It's a pretty basic mil anchor. Don't think there was even a BFO in it.

Does anyone have an idea what these things are worth before I go haggling with the proprietors?

Thanks,  
Bob - N3MBY

From boatanchors@theporch.com Tue Jan 10 00:00:22 1995  
Date: Mon, 9 Jan 1995 22:28:06 -0600  
Message-Id: <F19M2412.F19M2424@mail.admin.wisc.edu>  
From: TOM.A.ADAMS@mail.admin.wisc.edu  
Subject: Old Regens Never Die...

to: boatanchors@ThePorch.com

Greetings.

Just had an interesting experience that I'm sure the OFs on the system will relate with.

Recently I did some gear swapping and came up with a real gem; a Westinghouse "Aeriola Senior" broadcast receiver, circa about 1920. This thing is a very cute little one tube regenerative set that is built in a varnished wooden box with a hinged lid. I was surprised to find that the silly thing not only WORKS, but outperforms most of the AM broadcast radios that they've got down at Rat Shack or K-Mart!

I'm cheating a bit tho; the single tube (a Westinghouse WD-11) went belly up years ago. The previous owner carefully took the tube apart, removed the guts, soldered an MPF-102 FET into the base, and Krazy Glued the envelope back together. Just add 12-18 VDC to the B+ battery terminals (ignore the filament terminals) and away it goes, with no modifications to the radio! I'd like to find a WD-11 tube, either good or shot, to put in the socket for display purposes, but for actual use the FET works beautifully.

Last night (Sunday) was, I discovered, the PERFECT time to DX with a 75 year old radio. There are still a lot of stations out there that use old radio programs to fill the schedule on Sunday evening. As I sat there under a set of Baldwin cans, listening to the Eternal Question and Answer ("Who knows what evil lurks in the hearts of men? The Shadow knows...") I was struck with a spooky feeling, asking myself "is this just a radio, or is



it part time machine?".

The performance of this thing is amazing; solid stations from one end of the dial to the other. In the last couple of nights I've logged 5 countries (US, Mexico, Cuba, Canada, Netherlands Antilles) using my 160 Windom for the antenna. What struck me even more was the fidelity of the set; I haven't heard AM broadcast audio this good in YEARS! The Sunday night jazz program from CBW (Winnipeg, Manitoba: 990 KHz) was an absolute joy, and neither the R-390A or the SP-600 could hope to match the audio response of this little wooden box.

The thing I found intriguing was this.

I had the antenna attached to the "Long Wave" binding post (the AM band is divided into two bands, determined by which antenna post you use), and was tuning around with the regeneration set somewhat higher than usual, and I was stunned to hear CW! A beautiful fist, running about 25 WPM, began to pour out of the Baldies, telling of a gale warning for coordinates that I recognized as somewhere in the Pacific Ocean.

It never occurred to me that this old radio was designed to cover 600 metres (500 KHz) or lower, nor did it occur to me that this little box was capable of dragging in maritime station KFS (San Francisco) at a range of over 2000 miles!

If you've got an old regen that is just gathering dust and looking real pretty, try firing it up sometime. It's performance may well surprise you; 75 years ago they made some pretty good gear!

Tom "Mr. T." Adams, K9TA

From boatanchors@theporch.com Mon Jan 9 10:19:21 1995  
Date: Mon, 9 Jan 1995 08:47:03 -0600  
Message-Id: <9501091513.AA102331@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Re: Plug-in coils

>  
> On Fri, 6 Jan 1995 rdkeys@csemail.cropsci.ncsu.edu wrote:  
>  
> > >  
> > > I have several plug-in coils made by PACENT. They appear to be brand new  
> > > and in the original boxes. I don't know what radios they were used in,  
> >  
> > Pacent does not ring any bells.  
> >  
> > What are the sizes of the coils approximately, and what are the plug

> > pinouts?  
> >  
> > TU  
> > Bob/NA4G  
> > rdkeys@csemail.cropsci.ncsu.edu  
> >  
> >  
> Physical size: outside Dia. 2 3/8 inches  
>                   thickness: 1 inch  
>  
> The pinout is simple: 1 male pin and 1 female socket  
>  
> Surely someone knows what these thing are and what they are used for.  
> May some of you could use these coils in an ancient BA.  
>  
> Bob, NOHDH  
>

As the discussion of them proceeds, I think they are standard interpanel honeycomb coils for things like the old DeForest sets and others of the early 20's. I have a friend with an interpanel set that only has one coil for it. If you will send me your phone number, I will pass it along to him.

Bob/NA4G

From boatanchors@theporch.com Mon Jan 9 18:40:23 1995  
Date: Mon, 9 Jan 1995 17:06:29 -0600  
Message-Id: <9501092227.AA08423@mirage>  
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)  
Subject: Re: Plug-in coils

rdkeys@csemail.cropsci.ncsu.edu writes:

>  
> As the discussion of them proceeds, I think they are standard interpanel  
> honeycomb coils for things like the old DeForest sets and others of  
> the early 20's. I have a friend with an interpanel set that only has one  
> coil for it.  
>

Bob, for the unwashed among us, could you explain a little bit on what an "interpanel" set is? I took a look in Rider and there is a CS-5 set that seems to use two plug-in coils, each with one winding. One is the tuned grid tank, and the other is the tickeler, though I don't see how regen is controlled, also, though an early set it can't be all that early, the untuned RF buffer stage uses a screen grid tube.

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

As nightfall does not come at once, neither does oppression. In both instances, there is a twilight when everything remains seemingly unchanged. And it is in such twilight that we all must be most aware of change in the air--however slight--lest we become unwitting victims of the darkness.

Justice William O. Douglas

From boatanchors@theporch.com Mon Jan 9 09:41:26 1995  
Date: Mon, 9 Jan 1995 08:11:05 -0600  
Message-Id: <9501091437.AA102172@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Re: Plug-In Coils Inventory

>  
> Here is the list of Plug-in Coils. I also have two coil receptacles.  
> Each coil receptacle has two variable and one stationary platform.  
> One of the coil receptacles was made by ASTERLOID of Brooklyn, NY  
> The other receptacle has no marking what-so-ever.  
>  
> The Inventory follows:  
>  
> Coils by Deforest,  
> Label description: duo-lateral windings, ultra honeycomb  
> Type DL -- 1250 2ea  
>           750 2ea  
>           500 1ea  
>           400 1ea  
>  
>  
> Coils by Pacent.  
> Label description: mounted, duo-lateral windings  
> size: 300 1ea  
>       200 1ea  
>       100 1ea  
>        75 1ea  
>  
>  
> What are they worth? What equipment were they used in? Who needs them?  
>  
> Bob, NOHDH  
>  
>  
>

I have a friend who could use them on his Interpanel set, if they are what I am thinking they are. Send me your phone number and I will pass it along to him. If they are not what I am thinking of, then

he probably would not be interested.

Bob/NA4G  
rdkeys@csemail.cropsci.ncsu.edu

From boatanchors@theporch.com Mon Jan 9 16:20:28 1995  
Date: Mon, 9 Jan 1995 14:45:49 -0600  
Message-Id: <9501091743.AA08207@mirage>  
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)  
Subject: Re: Plug-In Coils Inventory

BOBME@laguna.epcc.edu writes:

>  
> What are they worth? What equipment were they used in? Who needs them?  
>  
Bob,

I have no idea what they are worth, if anything, but for sure they are a bit of history, even if we are not quite sure what bit that is :-)  
As to what they were used for, I'm still inclined to think that they might have been used in a trap (absorption) type wave meter. I can't totally rule out rec'vr use however, some early examples used series tuneing with the grid connected to the 'hot' side of the inductance.

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

As nightfall does not come at once, neither does oppression. In both instances, there is a twilight when everything remains seemingly unchanged. And it is in such twilight that we all must be most aware of change in the air--however slight--lest we become unwitting victims of the darkness.

Justice William O. Douglas

From boatanchors@theporch.com Mon Jan 9 17:47:05 1995  
Date: Mon, 9 Jan 1995 14:45:49 -0600  
Message-Id: <9501091743.AA08207@mirage>  
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)  
Subject: Re: Plug-In Coils Inventory

BOBME@laguna.epcc.edu writes:

>  
> What are they worth? What equipment were they used in? Who needs them?  
>  
Bob,

I have no idea what they are worth, if anything, but for sure they are a bit of history, even if we are not quite sure what bit that is :-)

As to what they were used for, I'm still inclined to think that they might have been used in a trap (absorption) type wave meter. I can't totally rule out rec'vr use however, some early examples used series tuneing with the grid connected to the 'hot' side of the inductance.

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

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Justice William O. Douglas

From boatanchors@theporch.com Mon Jan 9 09:55:02 1995  
Date: Mon, 9 Jan 1995 08:22:22 -0600  
Message-Id: <950109142015\_71333.144\_DHQ20-14@CompuServe.COM>  
From: don merz <71333.144@compuserve.com>  
Subject: Power Supply Help

I'm in need of some ideas for a power supply I have. It's marked 36-45 volts output at 20 amps. I'd like to bring this down to 26.5 to 28 volts to run some military gear here. The question is how best to do this. It could be easily done with a variac, but this would have to be an expensive 10AMP job to take the current. The power transformer in the supply has no alternate taps either.

I was wondering if there's a solid state regulator citcuit that I can hook to the output to get the voltages I need. But any and all ideas will be appreciated. Thanks.

From boatanchors@theporch.com Mon Jan 9 10:35:21 1995  
Date: Mon, 9 Jan 1995 09:03:01 -0600  
Message-Id: <9501091529.AA102425@csemail.cropsci.ncsu.edu>  
From: rdkeys@csemail  
Subject: Re: Power Supply Help

>

> I'm in need of some ideas for a power supply I have. It's marked 36-45 volts  
> output at 20 amps. I'd like to bring this down to 26.5 to 28 volts to run some  
> military gear here. The question is how best to do this. It could be easily  
> done with a variac, but this would have to be an expensive 10AMP job to take  
> the current. The power transformer in the supply has no alternate taps  
> either.

>

> I was wondering if there's a solid state regulator citcuit that I can hook to  
> the output to get the voltages I need. But any and all ideas will be

> appreciated.  
> Thanks.  
>

HINT: Use a variac and be happy! Don't waste your time trying other, more exotic approaches, because the line voltage regulation will probably only be marginal unless you go NASA style exotic that none of us can afford. A 10A variac should only cost 25 bucks, at most at any reasonable hamfest. New ones are not that expensive, and are often available at chemistry stores around any big campus. Check out the nearest university scrap heap. Many pieces of old equipment have variacs of 3 or 10 amp or larger size.

I have a 100 amp supply made from a BIG line dropping transformer and huge diodes the size of your fist. It runs quite well on a 10 amp variac to provide 60 amps to an AN/GRC-19 set, even though a 30 amp variac would be best. It does not heat warmer than the touch can handle.

Good LUck!

Bob/NA4G

From boatanchors@theporch.com Mon Jan 9 15:02:07 1995  
Date: Mon, 9 Jan 1995 13:28:41 -0600  
Message-Id: <mshaum.3.000BA350@xnet.com>  
From: mshaum@xnet.com (Mark Shaum)  
Subject: Re: Power Supply Help

>I was wondering if there's a solid state regulator citcuit that I can hook to the output

(Remainder Deleted)

I suppose I should have asked if you wanted a boatanchor-vintage circuit for the DC regulator.. lessee, a dozen or so parallel connected 810's <grin>. Just kidding.. in this case, going with a silicon solution is probably going to be the most economical and viable.

Reminds me of the all-tube digital clock my pre-EE roomates and I put together in our college apartment in '72.. used neon bulbs for the digital (binary) readout and I forget how many dozens of 12AU7's as flip-flops and gates. We had to use a car battery and charger to run the filaments until we realized the economies of series-parallel stringing and ran the filaments direct off the 120V ac line. The apparation was created on an approximately 3 by 5 foot sheet of quarter inch lucite and wall mounted. I have no clue as to what happened to that particular conversation piece.. I think I still have some of the original 'spare' 12AU7's..

73! - Mark, NE9G

From boatanchors@theporch.com Mon Jan 9 17:52:04 1995  
Date: Mon, 9 Jan 1995 16:17:53 -0600  
Message-Id: <Pine.3.89.9501091629.B22851-0100000@IndyNet>  
From: "Roberta J. Barmore" <rbarmore@IndyNet.indy.net>  
Subject: Re: Power Supply Help

Hi, Don!

On Mon, 9 Jan 1995, don merz wrote:

> I'm in need of some ideas for a power supply I have. It's marked 36-45 volts  
> output at 20 amps. I'd like to bring this down to 26.5 to 28 volts  
> [....] It could be easily done with a variac, but this would have to  
> be an expensive 10AMP job to take the current. [....]  
> either.  
>  
> I was wondering if there's a solid state regulator circuit that I can  
> hook to the output to get the voltages I need. [....]

Welllll...assuming the supply as it sits is a simple unregulated one, you might have a look at semi-recent editions of the ARRL Handbook; my '88 has a nice 28V high-current supply that is very likely adaptable and should do the job nicely--a 723 (generally \*ick\* but they've got it properly bypassed) drives a 2N3055 that in turn drives four '3055s as the pass transistors. It's rated at 10A continuous duty but could be scaled up by adding more pass transistors--I 'spect one 2N3055 will drive \*many.\* (You may have to fiddle some resistor values). The unregulated rail in the supply runs a bit over 40V, and shouldn't drop below 31V, pretty much in the same range as your unit.

Bear in mind that the pass transistors in a device such as this have got to get rid of a \*lot\* of heat--pretty large heatsinks are utterly necessary!

The circuit makes good intuitive sense even for us hollow-state-heads; look it up and see what you think. Aside from the power transformer and filter condenser (which you've already got), most of the parts are available at your corner Radio Shack.

73,

--Bobbi

(Whose present homebrew PSUs stop at 6A, current-wise, a 7812 with a 2N3055 wrapped around it--worked great once I got the three-terminal

regulator to stop oscillating. For awhile there, I was about to wrap it in tinfoil and bury it at the foot of a telephone pole, right alongside the pentode amp that didn't need neutralizing, HA!)

From boatanchors@theporch.com Mon Jan 9 17:57:38 1995  
Date: Mon, 9 Jan 1995 13:31:47 -0600  
Message-Id: <mshaum.2.000B87F2@xnet.com>  
From: mshaum@xnet.com (Mark Shaum)  
Subject: Re: Power Supply Help

>I'm in need of some ideas for a power supply I have. It's marked 36-45 volts  
>output at 20 amps. I'd like to bring this down to 26.5 to 28 volts to run some  
>military gear here. The question is how best to do this. It could be easily  
>done with a variac, but this would have to be an expensive 10AMP job to take  
>the current. The power transformer in the supply has no alternate taps  
>either.

>I was wondering if there's a solid state regulator citcuit that I can hook to the  
>output to get the voltages I need. But any and all ideas will be appreciated.  
>Thanks.

Don, I'd suggest that you use a simple series-pass linear regulator (see recent ARRL hb's for examples). I'm assuming that your supply is an unregulated iron -> rectifier -> filter arrangement that puts out 45 vdc at no load and 36 vdc with a 20A load.

Watch out for dissipation in the series pass transistor(s). If the iron box is putting out 36V at 20A, and the regulator is holding the final output to 28V, the transistors are dissipating 160 watts  $(36-28V) \times 20A$ . Even at low loads, the heat can be considerable. If the rectifier/filter puts out, say 40V at a 5A load, the pass elements still are heating with  $(40-28V) \times 5A$  watts.

You can add frills like current limiting, overvoltage protection, foldback limiting, etc if desired. If you plan to drive inductive loads (e.g. dynamotors) do use proper reverse-voltage and spike protection diodes around the series pass elements. And don't forget the boatanchor-class heat sink!

73! Mark, NE9G

From boatanchors@theporch.com Mon Jan 9 18:41:19 1995  
Date: Mon, 9 Jan 1995 17:06:58 -0600  
Message-Id: <9501092255.AA08441@mirage>  
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)  
Subject: Re: Power Supply Help



don merz writes:

>

> I'm in need of some ideas for a power supply I have. It's marked 36-45 volts  
> output at 20 amps. I'd like to bring this down to 26.5 to 28 volts to run some  
> military gear here. The question is how best to do this. It could be easily  
> done with a variac, but this would have to be an expensive 10AMP job to take  
> the current. The power transformer in the supply has no alternate taps  
> either.

>

Well, if you can find either a 30v/8a or 10-12v/20a transformer you can  
buck it out of the primary or secondary. Another idea, if it's not a  
sealed transformer, take turns off the secondary, the low voltage windings  
are often on the outside. This will work fine, transformer wise, however  
taking turns off of the primary is not an option, the primary turns count  
depends on the type of iron and the size of the core.

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

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instances, there is a twilight when everything remains seemingly unchanged.  
And it is in such twilight that we all must be most aware of change in the  
air--however slight--lest we become unwitting victims of the darkness.

Justice William O. Douglas

From boatanchors@theporch.com Mon Jan 9 16:49:30 1995

Date: Mon, 9 Jan 1995 15:15:57 -0600

Message-Id: <199501092001.MAA06894@netcom7.netcom.com>

From: halwaite@netcom.com (Hal R. Waite)

Subject: Question for NS6V on Valiant Audio

Pardon the use of bandwidth for this posting but I am sure that Rob is on  
the boatanchor list and I do not have his email address. In any case,  
the response should be of interest to many BAers.

Rob:

I have recently acquired a Valiant and Cal recommended your speech amp  
modification. Do you have anything to add to your December 1992 article  
in ER? Thanks in advance.

Hal K4GFI/7 halwaite@netcom.com

From boatanchors@theporch.com Mon Jan 9 02:38:09 1995

Date: Mon, 9 Jan 1995 01:05:58 -0600

Message-Id: <Pine.3.89.9501090232.B572548657-01000000@wmich.edu>

From: X90GALBRAIT1@wmich.edu

Subject: Re: R390A help sought

On Sun, 8 Jan 1995 WaltN@aol.com wrote:

> BTW, the Kiwa MAP works \*fantastically\* with the 390A, producing audio that  
> has to be heard to be believed. If you have one of these units, or run across  
> one in an ad or at a hamfest, \*grab it\*!

What exactly is a Kiwa MAP???

73, Chris KA8WFC

From boatanchors@theporch.com Mon Jan 9 11:32:05 1995

Date: Mon, 9 Jan 1995 10:01:04 -0600

Message-Id: <1291@sat.ampr.org>

From: ki5sl@sat.n5lyt.ampr.org (Rick\_Blank)

Subject: Re: R390A help sought

In message <950108235452\_3051171@aol.com> WaltN@aol.com writes:

> This weekend I replaced the expensive 26Z5W rectifiers with solid-state  
> diodes and a dropping resistor. The B+ is right where it was with the tubes,  
> and all worked well for the last couple of days. I had been in the habit of  
> turning the radio on to the standby position for 30-45 seconds to let the  
> tubes heat up before applying B+. Then, once, I forgot and turned the radio  
> on to AGC mode immediately. You guessed it...something is (not obviously)  
> toasted.

>

> The receiver acts as though the AGC is not working properly. Has anyone  
> experienced this problem? Any suggestions? All help greatly appreciated!.

>

> BTW, the Kiwa MAP works \*fantastically\* with the 390A, producing audio that  
> has to be heard to be believed. If you have one of these units, or run across  
> one in an ad or at a hamfest, \*grab it\*!

>

> 73 de Walt

>

On page 24 of the Army Technical Manual TM 11-5820-358-10,  
Operator's Manual Radio Receiver R390A/URR it states:

CAUTION: The function switch should not be left in standby for  
more than 30 minutes. Under this condition, the life of certain  
vacuum tubes may be shortened.

I was told by a long time R-390 mechanic (gotta be as much as an  
electrician!) NEVER to put the rig in standby...

On page 12, the starting procedure states to turn on the rig by turning it to the AGC position...all things I have read about the 390 and 390A admonish against replacing the rectifiers with solid state replacements...damage will happen...."Hollow State News" had a lot on this in several of it's issues and about the damage that can occur....

Rick Blank, KI5SL  
ki5sl@sat.ampr.org  
2223 Blanco Road  
San Antonio, Texas 78212  
end

From boatanchors@theporch.com Mon Jan 9 17:30:42 1995  
Date: Mon, 9 Jan 1995 15:57:12 -0600  
Message-Id: <199501092157.PAA55402@rs1.tcs.tulane.edu>  
From: Jon Brown <jcbrown@mailhost.tcs.tulane.edu>  
Subject: Re: R390A help sought

Every time I have blown a tube in my R-390A has been just after turning the radio on. The last tube replaced was a rectifier in the power supply. On the advice of Paul Zecchino I now leave the radio on all the time, just turn down the gain and volume when I am not listening. The radio has functioned perfectly for the last year using this method. Apparently power-up is the most stressful part of the cycle, so I avoid it entirely, with good results.

Christopher Brown

From boatanchors@theporch.com Mon Jan 9 17:51:33 1995  
Date: Mon, 9 Jan 1995 13:27:57 -0600  
Message-Id: <mshaum.5.000BDD4C@xnet.com>  
From: mshaum@xnet.com (Mark Shaum)  
Subject: Re: R390A help sought

In article ki5sl@sat.n5lyt.ampr.org (Rick\_Blank) writes:  
Re: 390A solid state rectifier replacement:

>On page 12, the starting procedure states to turn on the rig by  
>turning it to the AGC position...all things I have read about the  
>390 and 390A admonish against replacing the rectifiers with solid  
>state replacements...damage will happen...."Hollow State News" had  
>a lot on this in several of it's issues and about the damage that  
>can occur....  
>

Rick, do you recall what the reasoning was here? Offhand, I can't see why solid state replacements won't work as long as proper series resistors are

used to limit filter-inrush current and leave the voltage drop across the diodes the same as it was with the tube rectifiers. I've used this technique on many boxes, although have never owned a 390-series receiver. Maybe the particular tubes used had an unusual voltage-current characteristic?

73! - Mark, NE9G

From boatanchors@theporch.com Mon Jan 9 18:57:12 1995  
Date: Mon, 9 Jan 1995 17:25:46 -0600  
Message-Id: <199501092325.RAA00117@zoom.bga.com>  
From: Henry van Cleef <vancleef@bga.com>  
Subject: Re: R390A help sought (fwd)

As Jon Brown said

> From boatanchors@theporch.com Mon Jan 9 16:08:46 1995  
> Date: Mon, 9 Jan 1995 15:56:55 -0600  
> Message-Id: <199501092157.PAA55402@rs1.tcs.tulane.edu>  
> Errors-To: listtown@jackatak.theporch.com  
> Reply-To: jcbrown@mailhost.tcs.tulane.edu  
> Originator: boatanchors@theporch.com  
> Sender: boatanchors@theporch.com  
> Precedence: bulk  
> From: Jon Brown <jcbrown@mailhost.tcs.tulane.edu>  
> To: Multiple recipients of list <boatanchors@theporch.com>  
> Subject: Re: R390A help sought  
> X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
>  
> Every time I have blown a tube in my R-390A has been just after turning  
> the radio on. The last tube replaced was a rectifier in the power supply.  
> On the advice of Paul Zecchino I now leave the radio on all the time, just  
> turn down the gain and volume when I am not listening. The radio has functioned  
> perfectly for the last year using this method. Apparently power-up is the  
> most stressful part of the cycle, so I avoid it entirely, with good results.

An old radio repairman's trick from the 40's, dealing with 35Z5 and 50L6 filament burnouts, was to hang a few ohms in the heater string. I have a vague recollection of reading articles that talked about the problem being the magnetic fields generated by high current as high-voltage heaters began to warm up---it's amazing how low the resistance of a cold heater or light bulb can be. 10-30 ohms would do wonders for heater longevity. I don't know how well this would work with 26Z5's or with the tubes in an R-392, but toss it out for consideration. It might be possible to cut the startup current in half while only dropping the running voltage to the heater by about a volt. There are also varistors around that have high resistance cold, then go down as they get hot. Dunno offhand where to find them, but

just toss this out as a suggestion.

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\*\*\*\*\*  
Hank van Cleef vancleef@bga.com vancleef@tmn.com  
\*\*\*\*\*

From boatanchors@theporch.com Mon Jan 9 16:20:36 1995  
Date: Mon, 9 Jan 1995 14:49:33 -0600  
Message-Id: <d09Efrx0000000000@MHS>  
From: RICHARD\_HUMPHREY@hp5200.desk.hp.com  
Subject: RE: R390A rectifiers

This may have been covered in HSN, but since I don't subscribe yet,  
pardon my ignorance if I cover old territory.  
I was pondering what to do when the 26Z5s need replacement in my set,  
and I was curious about substitutions.  
Can 6X4 dual-diodes be substituted? The 26 volt winding on the tranny  
has a tap, which hopefully is at 12 volts. The 6X4 heaters could then  
be wired in series and hooked up there. Are the plate characteristics  
similar? Has anyone tried other substitutes?  
Richard  
N6NAE

From boatanchors@theporch.com Mon Jan 9 17:44:15 1995  
Date: Mon, 9 Jan 1995 14:49:33 -0600  
Message-Id: <d09Efrx0000000000@MHS>  
From: RICHARD\_HUMPHREY@hp5200.desk.hp.com  
Subject: RE: R390A rectifiers

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Richard  
N6NAE

From boatanchors@theporch.com Mon Jan 9 18:33:02 1995  
Date: Mon, 9 Jan 1995 16:57:25 -0600  
Message-Id: <d09Eku0000000000@MHS>  
From: RICHARD\_HUMPHREY@hp5200.desk.hp.com  
Subject: RE: R390A rectifiers (SS)

Mark, NE9G, asked about the reasoning behind not using solid state rectifiers in the R390A. Here's my 2cents worth:

1. The series resistors added with the silicon only work when the radio is drawing B+ current. For the 10 seconds or so that there is no load while the tubes heat up, the filter caps will charge up to the peak transformer secondary voltage, and put a lot of strain on the rest of the parts. ( $E=IR$ ; when  $I=0$ ,  $E=0$ )

2. The 26Z5 tubes are indirectly heated, so they don't start to conduct until the rest of the tubes are also somewhat warmed up. Therefore, the radio never really sees a 'no-load' condition and the B+ never soars out of control.

3. #2 is also the reason it's pointless to warm this set up in STBY mode. Everything in it ramps up gently at the same time, regardless of what mode it's in.

Radios. Can't live with em, can't live without em.

Richard

N6NAE

From boatanchors@theporch.com Mon Jan 9 17:43:36 1995

Date: Mon, 9 Jan 1995 14:53:54 -0600

Message-Id: <199501092048.MAA22072@mozart.bcit.bc.ca>

From: "Colin Schmutter" <cschmutter@bcit.bc.ca>

Subject: Receiver wanted

Hi

I am looking for either a Hammarlund HQ180 or Hallicrafters SX122 receiver in any condition.

Please E-mail me at cschmutter@bcit.bc.ca with asking price if anyone has one for sale.

Thanks

Colin

Colin Schmutter

Networks and Communications

British Columbia Institute Technology

CSCHMUTTER@BCIT.BC.CA

(604) 432-8858

From boatanchors@theporch.com Mon Jan 9 10:37:13 1995

Date: Mon, 9 Jan 1995 09:05:18 -0600

Message-Id: <Pine.3.89.9501091643.A29526-0100000@inet.uni-c.dk>

From: MEC <danmec@inet.uni-c.dk>

Subject: WW2 Radar litterature

I have the technical manual for the SCR-584 Radar  
for sale. Offers ?

73 Rag OZ8R0

From boatanchors@theporch.com Mon Jan 9 19:12:21 1995  
Date: Mon, 9 Jan 1995 17:39:12 -0600  
Message-Id: <9501092334.AA02898@Cybernetics.NET>  
From: ab4el@Cybernetics.NET (Stephen Modena)  
Subject: WWW Access to rec.antiques.radio+phono archives

WWW Access to RADIO+PHONO archives

A convenient World Wide Web access point for the rec.antiques.radio+phono  
archives (from the beginning) is:

<http://www.theporch.com/~shimshon/hamradio.html>

The menu has a "RADIO+PHONO" menu selection.

One may gopher to the archives:

[gopher SunSITE.unc.edu 70](gopher://SunSITE.unc.edu/70)

From the top menu, choose in succession: 5, 4, 8, 3, 3, 8  
and then choose the "RADIO+PHONO" menu item.

One may retrieve the archives by anonymous ftp:

[ftp SunSITE.unc.edu  
/pub/academic/agriculture/agronomy/ham/RADIO+PHONO](ftp://SunSITE.unc.edu/pub/academic/agriculture/agronomy/ham/RADIO+PHONO)

--

73/Steve/AB4EL ab4el@Cybernetics.NET in Raleigh, NC 35.81245N, 78.65849W